IN THE CLAIMS:

Please amend claims 6-7, 11, 20-21, 33-34, and 45, without prejudice, as follows.

- (Original) A method of forming a composite tungsten film, comprising: sequentially depositing tungsten nucleation layers and tungsten bulk
 layers on a substrate to form a composite tungsten layer, wherein each of the tungsten nucleation layers and the tungsten bulk layers have a thickness less than about 300 Å.
- 2. (Original) The method of claim 1 wherein each of the tungsten bulk layers has a thickness within a range of about 150 Å to about 250 Å.
- 3. (Original) The method of claim 1 wherein each of the tungsten nucleation layers has a thickness within a range of about 15 Å to about 50 Å.
- 4. (Original) The method of claim 1 wherein the composite tungsten film has a thickness within a range of about 500 Å to about 3000 Å.
- 5. (Original) The method of claim 1 wherein each of the tungsten nucleation layers is deposited by alternately adsorbing a tungsten-containing precursor and a reducing gas on the substrate.
- 6. (Currently amended) The method of claim 5 wherein the tungsten-containing precursor is selected from the group consisting of tungsten hexafluoride (WF_6) and tungsten carbonyl $(W(CO)_6)$.
- 7. (Currently amended) The method of claim 5 wherein the reducing gas is selected from the group consisting of silane (SiH₄), disilane (Si₂H₆), dichlorosilane (SiCl₂H₂), borane (BH₃), diborane (B₂H₆), triborane (B₃H₉), tetraborane (B₄H₁₂), pentaborane (B₅H₁₅), hexaborane (B₆H₁₈), heptaborane (B₇H₂₁), octaborane (B₈H₂₄), nanoborane (B₉H₂₇) nonaborane, and decaborane (B₁₀H₃₀).

- 8. (Original) The method of claim 5 wherein the tungsten nucleation layer is deposited at a temperature within a range of about 200°C to about 400°C.
- 9. (Original) The method of claim 5 wherein the tungsten nucleation layer is deposited at a pressure within a range of about 1 torr to about 10 torr.
- 10. (Original) The method of claim 1 wherein each of the tungsten bulk layers is deposited by thermally decomposing a gas mixture comprising a tungsten-containing precursor.
- 11. (Currently amended) The method of claim 10 wherein the tungsten-containing precursor is selected from the group consisting of tungsten hexafluoride (WF_6) and tungsten carbonyl $(W(CO)_6)$.
- 12. (Original) The method of claim 10 wherein the tungsten bulk layer is deposited at a temperature within a range of about 450°C to about 650°C.
- 13. (Original) The method of claim 10 wherein the tungsten bulk layer is deposited at a pressure within a range of about 10 torr to about 30 torr.
- 14. (Original) The method of claim 1 wherein the tungsten nucleation layers are deposited in a different process chamber than that used to deposit the tungsten bulk layers.
- 15. (Original) The method of claim 1 wherein the tungsten nucleation layers are deposited in the same process chamber used to deposit the tungsten bulk layers.
- 16. (Original) A method of forming a composite tungsten film, comprising: sequentially depositing tungsten nucleation layers and tungsten bulk layers on a substrate to form a composite tungsten layer, wherein each of the tungsten nucleation

layers is deposited by alternately adsorbing a tungsten-containing precursor and a reducing gas on the substrate and wherein each of the tungsten bulk layers is deposited by thermally decomposing a gas mixture comprising a tungsten-containing precursor.

- 17. (Original) The method of claim 16 wherein each of the tungsten bulk layers has a thickness within a range of about 150 Å to about 250 Å.
- 18. (Original) The method of claim 16 wherein each of the tungsten nucleation layers has a thickness within a range of about 15 Å to about 50 Å.
- 19. (Original) The method of claim 16 wherein the composite tungsten film has a thickness within a range of about 500 Å to about 3000 Å.
- 20. (Currently amended) The method of claim 16 wherein the tungsten-containing precursor is selected from the group consisting of tungsten hexafluoride (WF_6) and tungsten carbonyl $(W(CO)_6)$.
- 21. (Currently amended) The method of claim 16 wherein the reducing gas is selected from the group consisting of silane (SiH₄), disilane (Si₂H₆), dichlorosilane (SiCl₂H₂), borane (BH₃), diborane (B₂H₆), triborane (B₃H₉), tetraborane (B₄H₄₂), pentaborane (B₅H₄₅), hexaborane (B₆H₁₈), heptaborane (B₇H₂₄), octaborane (B₈H₂₄), nanoborane (B₉H₂₇) nonaborane, and decaborane (B₁₀H₃₀).
- 22. (Original) The method of claim 16 wherein the tungsten nucleation layer is deposited at a temperature within a range of about 200°C to about 400°C.
- 23. (Original) The method of claim 16 wherein the tungsten nucleation layer is deposited at a pressure within a range of about 1 torr to about 10 torr.
- 24. (Original) The method of claim 16 wherein the tungsten bulk layer is deposited at a temperature within a range of about 450°C to about 650°C.

- 25. (Original) The method of claim 16 wherein the tungsten bulk layer is deposited at a pressure within a range of about 10 torr to about 30 torr.
- 26. (Original) The method of claim 16 wherein the tungsten nucleation layers are deposited in a different process chamber than that used to deposit the tungsten bulk layers.
- 27. (Original) The method of claim 16 wherein the tungsten nucleation layers are deposited in the same process chamber used to deposit the tungsten bulk layers.
- 28. (Previously presented) A method for forming a composite tungsten film for use in a memory cell, comprising:

providing a substrate structure, wherein the substrate structure comprises an insulating material, comprising, silicon oxide or silicon nitride, having at least one aperture formed therein; and

sequentially depositing tungsten nucleation layers and tungsten bulk layers, at least partially within the at least one aperture to form a composite tungsten layer, wherein the tungsten nucleation layers are deposited by alternately adsorbing a tungsten-containing precursor and a reducing gas on the substrate structure and wherein the tungsten bulk layers are deposited by thermally decomposing the tungsten-containing precursor.

- 29. (Original) The method of claim 28 wherein each of the tungsten bulk layers has a thickness within a range of about 150 Å to about 250 Å.
- 30. (Original) The method of claim 28 wherein each of the tungsten nucleation layers has a thickness within a range of about 15 Å to about 50 Å.
- 31. (Original) The method of claim 28 wherein the composite tungsten film has a thickness within a range of about 500 Å to about 3000 Å.

- 32. (Cancelled)
- 33. (Currently amended) The method of claim 28 wherein the tungsten-containing precursor is selected from the group consisting of tungsten hexafluoride (WF_6) and tungsten carbonyl $(W(CO)_6)$.
- 34. (Currently amended) The method of claim 28 wherein the reducing gas is selected from the group consisting of silane (SiH₄), disilane (Si₂H₆), dichlorosilane (SiCl₂H₂), borane (BH₃), diborane (B₂H₆), triborane (B₃H₉), tetraborane (B₄H₁₂), pentaborane (B₅H₁₅), hexaborane (B₆H₁₈), heptaborane (B₇H₂₄), octaborane (B₈H₂₄), nanoborane (B₉H₂₇) nonaborane, and decaborane (B₁₀H₃₀).
- 35. (Previously presented) The method of claim 28 wherein the tungsten nucleation layer is deposited at a temperature within a range of about 200°C to about 400°C.
- 36. (Previously presented) The method of claim 28 wherein the tungsten nucleation layer is deposited at a pressure within a range of about 1 torr to about 10 torr.

37-38. (Cancelled)

- 39. (Previously presented) The method of claim 28 wherein the tungsten bulk layer is deposited at a temperature within a range of about 450°C to about 650°C.
- 40. (Previously presented) The method of claim 28 wherein the tungsten bulk layer is deposited at a pressure within a range of about 10 torr to about 30 torr.
- 41. (Previously presented) The method of claim 28 wherein the tungsten nucleation layers are deposited in a different process chamber than that used to deposit

the tungsten bulk layers.

- 42. (Previously presented) The method of claim 28 wherein the tungsten nucleation layers are deposited in the same process chamber used to deposit the tungsten bulk layers.
- 43. (Previously presented) The method of claim 28 wherein the composite tungsten film is used for word or bit metallization, or both.
- 44. (Previously presented) The method of claim 28 wherein each of the tungsten bulk layers has a thickness of less than about 300 Å.
- 45. (Currently amended) The method of claim 16 further comprising:

 depositing a dielectric layer on the substrate surface;

 forming at least one aperture within the dielectric layer; and

 depositing a barrier layer comprising titanium nitride (TiN) or tantalum nitride

 (TaN) on the dielectric layer prior to the sequentially depositing tungsten.
- 46. (Previously presented) The method of claim 45 wherein the composite tungsten film has a thickness within a range of about 500 Å to about 3000 Å.